ERO 101
RGB LED beam movinghead

User manual

Any information and illustrations shown in this user manual are subject to change without further notice.

User manual version: 3.0 Creation date + author initials: 27-12-2013 RV Revision date + author initials: 18-02-2014 RV

Safety instructions

WARNING!

Always keep this device away from moisture and rain! Hazardous electrical shocks may occur!

WARNING!

Only connect this device to a matching power outlet. This device is intended to work on a specified AC currency. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electrical shocks!

WARNING!

Be careful with every operation of this device. Touching live wires inside and outside the unit may cause hazardous electrical shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:
- Be qualified
- Follow the instructions of this manual

- Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information and consultation.
- To make sure the device maintains in perfect condition and for safe operation, it is necessary for the user to follow the instructions and warning notes of this user manual.
- Damage caused by improper use or modifications to the device are not covered by warranty.
- This device does not have any user-serviceable parts inside. Servicing of this device needs to be done by qualified technicians.

Important notes regarding safety and health:
- Never let the power cord come in contact with other cables. Handle the power cord and all connectors with the mains with caution.
- Never remove any warning or informative labels from the unit
- The ground contact always needs to be connected. Do not cover or remove the ground contact.
- Never leave cables lying around
- Do not open the device and do not modify any hard- or software of this unit.
- Do not insert this object into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the system on and off frequently as this will reduce the lifespan of the device.
- Do not drive the inputs of the fixture with a signal larger than required to work at full performance.
- Only use this device indoor, avoid contact with water, moist or other liquids. Do not place items filled with liquids on top of the unit.

- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electrical shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables than specified in the manual, do not use defective or bad functioning cables. Contact your dealer when the included or required cables do not work properly with this device.
- When the device has been exposed to large temperature differences (for example, transport from outdoor to indoor), do not connect the device immediately. Do not activate the unit until it has reached room temperature, as moist might build up inside the unit, which may cause shortcuts and/or electrical shocks.

Guidelines and types of use:
- This device is intended to be used by professionals on stage, in theaters, clubs and other equal venues.
- This device is not suitable for children and always needs to be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in moist or dusty environments, or where long-term damage may occur such as:
    - indoor swimming pools where chlorine is used.
    - Beaches, where sand and salt are present.
    - Outdoor, without roof protection
    - Indoor areas where intense heat sources are present or where the temperature exceeds levels which are comfortable for humans.
- Only use the included power adapter and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collision during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarize yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in other ways than described in this user manual may cause damage and injury. Ayra does not take responsibility for any damage or injury caused by improper use.

Storage and transport:
- This device is intended for mobile use. When transported, use the original packaging of the product, or a fitting flightcase, preferably filled with foam.
- This device is not intended for permanent use. Operation breaks will ensure that the lifespan of the device remains unchanged.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flightcase.
- Store the device indoor, dry and do not expose the device to extreme temperature differences.

Housing:
- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be avoided at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture
- Every power or signal chassis/connector should be mounted tightly. Do not use the device when connectors are loose.
- Do not use the power cord when the cores are visible. Contact your dealer for a replacement if needed.
- Avoid the buildup of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. When using the device intensively, the cleaning frequency needs to be increased.

Fuses:
- The main fuse of this device is to be found on the rear of the device. In most cases, directly next to the power inlet.
- Only replace a fuse for a new one with the same type and rating! Do not use a fuse with a higher or lower

rating.
- Do not bridge the fuse with electrical wires, aluminum foil, as the fuse is used for protection against electrical shocks and short circuit.
- Always mount the fuse cover back to the fuse compartment.

Box contents

Box contents
1x ERO 101 fixture
1x power cable (Powercon blue – Schuko)
1x power link cable (Powercon blue – Powercon grey)
1x Dmx cable (XLR male – XLR female)

Unit and accessory inspection
- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

Device overview

1. Beam output
2. Menu display
3. Cooling fan
4. Menu buttons
5. Powercon input
6. Powercon output
7. DMX input
8. DMX output
9. Safety eye
10. Installation point for hook/clamp mounting
NOTE: Hook not included, to be purchased separately.

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Setting up the unit

The ERO 101 movinghead is equipped with an advanced graphic LCD display, with backlight for easy navigation in dark or dimmed environments. The display is positioned on the rear of the moving head and is equipped with four menu-buttons to cycle through the several functions and values. After activating the movinghead it is important to let the device finish the start-up progress, in which it will calibrate the stepping motors of the device. After this, the movinghead will stop moving and direct itself to a static position. At that point, the settings can be changed by the user.

The most important settings are shown on the display.

Addr: displays the current DMX starting address. Right beneath this value you will find **CH:** with a channel which has recently been changed. On the right of this you will find **V:**, a function that displays the last selected value for a certain channel. When changing several DMX-values of the movinghead, you will notice that the channel and value digits will change according to the commands that you send to the fixture through DMX. During use, the display backlight will shut off to ensure that no glare or scattered light is projected. When approaching the menu function with the menu buttons, the backlight will turn back on. This function can be changed so the display will be active continuously.

To prevent injury, damage and dangerous situations, only perform actions on the display and menu-functions when the movinghead is in a static position. To change the working mode of the fixture, disconnect and reconnect the power supply. The device will re-activate itself and turn to the static 0-point position which gives you the opportunity to change the working mode. In DMX-mode the display and buttons can be approached when using the 'blackout' mode of your DMX-controller or software.

When selecting an automatic or music controlled mode, press 'enter' to activate it. After this you have some seconds time to remove your hand from the direct environment of the head, as it will activate the sequence and start moving.

Navigation in the menu structure is easy. Use the **'UP'** and **'DOWN'** keys to navigate between the several settings, use **'SET/ESC'** to return to the previous category and use **'ENTER'** to select a submenu or to confirm certain settings.

When scrolling through the several functions of the ERO 101 in the menu structure, you will notice that there are several settings to change. On the next page you will find a detailed description of all functions and the several values which can be selected.

When activating the fixture and when the start-up process is completed, you will notice that the last selected DMX-address is shown on the screen. (standard: 001). When no DMX-signal is received, the display will blink continuously. It is possible to approach the menu when the fixture is in this particular position.

A detailed description of the menu structure as shown in the display, is to be found on the next pages.

①SET menu←SET/ESC←Addr:001(DMX mode→ENT→**DMX menu②**

UP↑↓DOWN
SET menu←SET/ESC←ManualDimmer→ENTER→**Manual dimmer menu③**
UP↑↓DOWN
SET menu←SET/ESC←Red→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Green→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Blue→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Yellow→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Cyan→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Purple→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←PureWhite→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Amber→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←All White→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←3200K→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←5600K→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←6500K→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←8500K→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←10000K→ENTER→null
UP↑↓DOWN
SET menu←SET/ESC←Change Color→ENTER→**Motor Run Menu④**
UP↑↓DOWN
SET menu←SET/ESC←Twinkling→ENTER→Motor Run Menu
UP↑↓DOWN
SET menu←SET/ESC←Fade→ENTER→Motor Run Menu
UP↑↓DOWN
SET menu←SET/ESC←Macro→ENTER→**Macro menu⑤**
UP↑↓DOWN

SET Menu:

├ Reset Machine
│ ├ Reset: ON ;Fixture reset
│ └ Reset: OFF ;No reset (default)
├ Load Parameter
│ ├ Load ON ;Reset to factory settings
│ └ Load OFF ;No reset to factory settings (default)
├ Master / Alone

```
│ ├ Master Mode              ;Master-modus for master/slave working mode
│ └ Alone Mode               ;Stand-alone working mode (default)
├ Auto / Sound
│ ├Auto Mode                 ; automatic working mode
│ └Sound Mode                ; music controlled working mode
├ MIC Sense: 00~99%          ; (default:20)
├ TC Switch                  ; built-in thermostat, protects from overheating
│ ├ TC Switch Mask
│ │ ├ Switch ON              ; Protection from overheating: active (default)
│ │ └ Switch OFF             ; Protection from overheating: deactivated
│ └TC Switch Temp            ; (password protected)
│       ├ TC Temp Cap:       ; Sense the current temperature
│       └ TC Temp Set:       ; Set the Temperature Control modus limit on a certain point
├ Scan setting
│├ Reverse Pan
│ │ ├ Reverse Pan: ON        ; invert the pan value
│ │ └ Reverse Pan: OFF       ; do not invert the pan value (default)
│├ Reverse Tilt
│ │ ├ Reverse Tilt: ON       ; invert the tilt value
│ │ └ Reverse Tilt: OFF      ; do not invert the tilt value (default)
│├ Pan Degree                ; maximum pan degree setting
│ │ ├ Pan Degree: 630
│ │ └ Pan Degree: 540        ; (default)
│ ├ Scan Black Out
│ │ ├ Scan Black Out: ON     ; Activate black-out mode while movement still takes place
│ │ └ Scan Black Out: OFF    ; (default)
│ └Feed back
│  ├ Feed Back: ON           ; Unlock pan/tilt position feedback (default)
│  └ Feed Back: OFF          ; Lock pan/tilt position feedback
├ Dimmer Curve
│ ├ Square Law               ; Use Square Law dimcurve (more defined at low values) (default)
│ ├ Inv Square Law           ; Use inverted Square Law (more defined at high values)
│ └ S-Curve                  ; Use S-Curve (more defined at low and high values)
├ Dimmer Speed
│ ├ Dimmer: Smooth           ; Slow dimmer response for fluent dimming (default)
│ └ Dimmer: Fast             ; Fast dimmer response for quick dimming passages
├ Dmx Reset
│ ├ Enabled                  ; Reset through DMX unlocked ;(default)
│ ├ Disabled                 ; Reset through DMX locked
```

├ Fan ; Fan speed
│ ├ Regulated ; Temperature controlled fan speed (default)
│ └ Full ; Full on permanent fan speed
└Information
├ Time: tt/mm/ss ; Show time display
├ Date: mm/dd/yy ; Show date display
└ Use Time: hour: minute

②DMX menu

DMX Menu: ; DMX mode
├ DMX Address: 001 ; Select DMX address
├ No DMX Signal ; Function when no DMX-signal is sensed
│ ├Stop Run ; Blackout with all values to 0 (default)
│ ├Hold Run ; Static mode with the last received DMX-values
│ ├Auto Run ; Move to auto run function
│ └Sound Run ; Move to music controlled function
└ DMX Channels
├ HVS Mode
└STAGE Mode
├12 Channels ; (default)
├9 Channels
├8 Channels
└5 Channels

③Macro menu

Macro Menu: ; Programmable automatic program
├Motor Run ; Pan/tilt movement yes/no
│ ├Auto Run: OFF ; No pan/tilt movement
│ └Auto Run: ON ; Automatic pan/tilt movement
├Step Quantity: 3 ; 0~62 programmable steps (default:3)
├Program Step 01 ; Select program for the first step of the macro
│ ├Change Color
│ ├Twinkling
│ └Fade
│.....
└Program Step 62

④Motor Run Menu

Motor Menu:

└Motor Run ; Pan/tilt movement

├Auto Run: OFF ; Automatic pan/tilt movement off

└Auto Run: ON ; Automatic pan/tilt movement on

⑤ManualDimmer menu

ManualDimmer:

├ Light Switch

│ ├ Light ON ; (default)

│ └ Light OFF

├ Light Red: 255 ; Dimmer red 0-255 (default: 255)

├ Light Green: 255 ; Dimmer green 0-255 (default: 255)

├ Light Blue: 255 ; Dimmer blue 0-255 (default: 255)

├ Light Strobe: 000

├ Scan Pan: 0 ; (default: 0)

├ Scan Tilt: 0 ; (default: 0)

├ Scan PanFine: 000 ; (default: 0)

├ ScanTiltFine: 000 ; (default: 0)

└ Light Calibrate

| ├ Cal Pan:-128~+127 ; Pan calibration

| └ Cal Tilt:-128~+127 ; Tilt calibration

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DMX and DMX channel settings

The Ayra ERO 101 LED movinghead is designed for control with any DMX-controller or DMX-software, to control every function of the device in detail. For optimal use of the DMX-channels (which can make a large difference with multiple fixtures) there are several DMX working modes available, from basic to advanced.
The device is equipped with 5 DMX channel modes:

- HSV mode: 7-channel DMX
- STAGE mode: 12-channel DMX
  9-channel DMX
  8-channel DMX
  5-channel DMX

The HSV mode stands for Hue, Saturation Value mode. Hue is the specific color tone (red, orange, yellow) to be changed. Saturation is the function to change between the brightness of the color compared to the color depthness. When selecting more brightness, the color tone deepness will be slightly decreased. When selecting a deeper color tone, the brightness will decrease. In addition to these values there is Value, which controls the overall light-intensity. This function can be seen as a dimmer function.
In the STAGE modes, the color combinations are defined with seperate values for red, green and blue. This way you are able to make over 16 million colour combinations with the seperate dimmers, by changing the intensity of the several colors for any value between 0 and 255.

The amount of channels in one of the STAGE channel modes determines the amount of control over the several functions. When your amount of free DMX-channels is minimal, you are able to select a basic 5-channel control mode to save free channels. An advanced 12-channel mode can be selected when you want ultimate control over all features of this device, including color macro's, shutter/pulse features, and so on.
The functions and values of the several DMX channel modes and corresponding values are defined on the next pages.

To avoid errors in your DMX signal line, Ayra recommends the use of a DMX-terminator at the end of your DMX-line. Also recommended is the use of special DMX-cable with an impedance of 110 Ohms. A DMX-terminator mostly consists of a single XLR connector with a 110 Ohm resistor placed between pin 2 and 3.

7-channel HSV modus

Channel	Value	Function
CH1	000-255	**Hue** 0~100%
CH2	000-255	**Saturation** 0~100%
CH3	000-255	**Value** 0~100%
CH4	000-255	**Pan** 0~540°/0~630° (maximum range adjustable in menu)
CH5	000-255	**Pan fine**
CH6	000-255	**Tilt** 0~240°
CH7	000-255	**Tilt fine**

5-channel STAGE modus

Channel	Value	Function
CH1	000-255	**Dimmer red** 0~100%
CH2	000-255	**Dimmer green** 0~100%
CH3	000-255	**Dimmer blue** 0~100%
CH4	000-255	**Pan** 0~540°/0~630° (maximum range adjustable in menu)
CH5	000-255	**Tilt** 0~240°

8-channel STAGE modus

Channel	Value	Function
CH1	000-255	**Dimmer red** 0~100%
CH2	000-255	**Dimmer green** 0~100%
CH3	000-255	**Dimmer blue** 0~100%
CH4	000-255	**Master dimmer** 0~100%
CH5	000-255	**Pan** 0~540°/0~630°
CH6	000-255	**Pan fine**
CH7	000-255	**Tilt** 0~240°
CH8	000-255	**Tilt fine**

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12-channel STAGE modus

Channel	Value	Function
CH1		**Strobe**
	000-019	Shutter open
	020-064	Strobe 1 (fast - slow)
	065-069	Shutter open
	070-084	Strobe 2: opening pulse(fast - slow)
	085-089	Shutter open
	090-104	Strobe 3: closing pulse(fast - slow)
	105-109	Shutter open
	110-124	Strobe 4: random strobe(fast - slow)
	125-129	Shutter open
	130-144	Strobe 5: random open pulse(fast - slow)
	145-149	Shutter open
	150-164	Strobe 6: random closed pulse (fast - slow)
	165-169	Shutter open
	170-184	Strobe 7: burst pulse (fast - slow)
	185-189	Shutter open
	190-204	Strobe 8: random burst pulse (fast - slow)
	205-255	
CH2		**Master dimmer**
	000-255	0~100%
CH3		**Pan**
	000-255	0~540°/0~630°
CH4	000-255	**Pan fine**
CH5		**Tilt**
	000-255	0~240°
CH6	000-255	**Tilt fine**

CH7		**Fixture control settings**
	000-009	No function
	010-014	Reset (Hold the value for >8 seconds)
	015-039	No function
	040-044	Medium pan/tilt speed
	045-049	Maximal pan/tilt speed
	050-054	Minimal pan/tilt speed
	055-059	No function
	060-064	Maximum fan speed
	065-069	No function
	070-074	Temperature-controlled fan speed
	075-109	No function
	110-114	Fast dimmer
	115-119	No function
	120-124	Fluent/smooth dimmer
	125-249	No function
	250-255	Activate display backlight
CH8		**Color wheel / Color macro**
	000-009	Unlock dimmer channel
	010-014	Moroccan pink
	015-019	Pink
	020-024	Special rose pink
	025-029	Follies pink
	030-034	Fuchsia pink
	035-039	Surprise pink
	040-044	Congo Blue
	045-049	Tokyo Blue
	050-054	Deep Blue
	055-059	Just Blue
	060-064	Medium Blue
	065-069	Double CT Blue
	070-074	Slate Blue
	075-079	Full CT Blue
	080-084	Half CT Blue
	085-089	Steel Blue
	090-094	Lighter Blue
	095-099	Light Blue
	100-104	Medium Blue Green
	105-109	Dark Green
	110-114	Primary Green
	115-119	Moss Green

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	120-124	Fern Green
	125-129	JAS Green
	130-134	Lime Green
	135-139	Spring Yellow
	140-144	Deep Amber
	145-149	Chrome Orange
	150-154	Orange
	155-159	Gold Amber
	160-164	Millennium Gold
CH 8	165-169	Deep Golden Amber
	170-174	Flame Red
	175-179	Open
		Rotating color wheel effect (rainbow effect)
	180-201	Clockwise, fast to slow
	202-207	Counter-clockwise, slow to fast
	208-229	Pause color wheel on the current color
	230-234	Open
		Random color
	235-239	Fast change
	240-244	Medium change
	245-249	Slow change
	250-255	Open
CH9		**Dimmer red**
	000-255	0~100%
CH10		**Dimmer green**
	000-255	0~100%
CH11		**Dimmer blue**
	000-255	0~100%
CH12		**Color temperature correction**
	000-019	No function
	020-255	10000K~2500K

DMX lighting troubleshooting

If you have any problems with DMX lighting, consult this troubleshooting section to solve any difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequent problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for DMX controllers, DMX cabling and DMX lighting fixtures. It is possible that not all described problems, causes and solutions apply to your situation as product details may vary from product to product.

Problem	**Possible Cause**	**Solution**
The fixture does not activate itself	Blown fuse	Check the fuse compartiment for blown fuses and replace it if necessary.
	No power cable plugged in	Plug in the power supply to a matching power outlet
	Power switch is not in the ON position	Turn on the device by switching the ON/OFF switch to the ON position, if available
The fixture does not respond to DMX signals	Wrong DMX address	Set the DMX address to the right value
	DMX controller blackout function activated	Deactivate the blackout function of your DMX controller
	Faulty positioning of the DMX polarity switch on the controller	flip the polarity switch on your DMX controller
	No response or DMX activity signal LEDs active	Check your DMX cables for possible connection breaks and replace them if necessary.
The fixture does not respond to sound	Wrong working mode selected.	Check if the sound activated mode of the fixture is activated.
	Microphone sensitivity level is set too low	Increase the microphone sensitivity of the built-in microphone
	Speaker placed too far away or lack of bass	Place your lighting effect closer to your speakers (or vice versa) and/or increase low frequency volumes. The microphone will not be triggered with high pitched sounds.
The beam output is very low	Dirty/dusty optics	Clean the lens and/or other optics with a dry or damp cloth
	Dimmer is not set to full output	Set all dimmer levels to 100% on your DMX console
Sometimes the DMX signal is lost and/or some fixtures are flickering / behaving odd sometimes	Faulty/broken DMX cables	Check your DMX cables for possible connection breaks and replace them if necessary.
	Power cable interference on your	Avoid installing the DMX and

	DMX signal	(high) power cables parallel to each other.
	No DMX terminator	Apply a DMX terminator at the end of your DMX-chain
	Signal loss or distortion in DMX values	Apply a DMX booster in your DMX chain after 32 fixtures or less. After a maximum of 32 fixtures the DMX signal needs to be refreshed.
Moving parts are not functioning well, values do not match and/or rattling sounds are noticed	Faulty stepping motor positioning	Possible value loss of stepping motors. Activate the reset function, or unplug the power supply and plug it back in to activate the reset program. This will reset all values to the original 0-point.
The fixture does not respond fast enough to the set speed on my DMX controller	Moving parts can not keep up with the set speed	Decrease the chase speed of your DMX controller, as the stepping motors of your fixture need some time to move from one point to another.
The fixture does not respond to all DMX-channels	Wrong DMX channel mode	Check the DMX channel mode of the fixture. If the wrong value is set, change the channel mode to a different setting and try again.

Technical specifications

Product features:
- compact design
- minimal fan and movement noise
- easy to use power supply with locking-mechanism (Neutrik Powercon)
- easy to use power daisy-chain output with locking mechanism (Neutrik Powercon)
- tight projection angle for optimal beam-effects
- DMX, music controlled, automatic and master/slave working modes
- music controlled mode by internal microphone with adjustable sensitivity (digital)
- onboard graphic display with backlight
- smooth electronic dimmers for each color
- electronic shutter with strobe- and pulse effects
- 630 or 540 degrees pan
- 240 degrees tilt
- auto-adjust pan and tilt stepping motors
- RGB color mixing system with adjustable color temperature
- selectable color temperature: 3200K, 5600K, 6500K, 8000K, 10000K
- built-in thermostat to prevent overheating
- variable, electronic strobe-function from 1 to 25 flashes per second
- high-quality CREE branded LEDs with a long lifespan, high output and optimal efficiency
- built-in digital color wheel with several selectable macros
- several DMX channel modes:
    - HSV mode: 7-channel DMX
    - STAGE mode: 12-channel DMX
      9-channel DMX
      8-channel DMX
      5-channel DMX

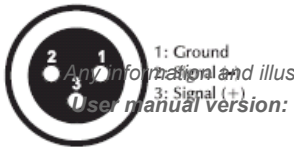
Specs:
- Power requirements: 100-240V AC, 50/60 Hz
- Power consumption: max. 180 Watt
- LEDs: CREE XP-E 5 Watt LED chip
- Number of LEDs: 36
- RGB LED color distribution: 12x red, 12x green, 12x blue
- LED lifespan: 50.000 hours
- Projection angle: 13 degrees
- Pan range: 540/630 degrees
- Tilt range: 240 degrees
- DMX-channel modes: 5, 7, 8, 9 or 12
- Working modes: DMX512, Master/slave, music controlled or automatic
- Graphic display with menu-information and backlight
- Fan cooled (full speed or temperature controlled speed)
- IP-rating: IP20
- Indoor/outdoor use: indoor
- DMX connectors: 3-pin XLR
- Power connector: Neutrik Powercon NAC3FC A/B
- Working temperature: -30 to +40 degrees Celsius
- Dimensions: 242 x 130 x 289 mm
- Weight: 3.6 kg

Connectors and wiring schematics:

DMX-connections:

DMX-output

XLR mounting-socket:



DMX-input

XLR mounting-plug:

Electrical wiring:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⏚

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